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Appl. No. 09/918,031***Amendments to the Claims***

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (currently amended) A system for efficient utilization of a single physical server with a single operating system kernel by an end user of a personal computer, said system comprising:

a virtual computing environment functionally equivalent to a physical server having a full-featured operating system;

said virtual computing environment constructed and arranged to separate user processes on the level of namespace and on the basis of restrictions implemented inside said operating system kernel;

~~whereby wherein~~ emulation of hardware resource is not required, ~~and wherein dedicating or a dedicated~~ memory is not required.

2. (original) The system as defined in Claim 1 wherein virtual computing environments are not visible to other virtual computing environments operating in a network of computers on non-network level of communications.

3. (original) The system as defined in Claim 1 wherein each virtual computing environment has a completely independent root file system.

4. (currently amended) A computing system comprising:

a physical server having an operating system kernel;

a plurality of virtual computing environments running on the physical server, each virtual computing environment being functionally equivalent to a physical server computer; and

a plurality of user processes running within at least one of the virtual computing

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environments, the user processes being separated on a namespace level and separated based on restrictions implemented in the operating system kernel,

wherein the virtual computing environments do not require emulation of hardware resources and do not require dedicating memory.

5. (previously presented) The system of Claim 4, wherein each virtual computing environment has an independent root file system.

6. (canceled)

7. (previously presented) The system of Claim 4, wherein resources of the operating system kernel belonging to different users are separated on the namespace level.

8. (previously presented) The system of Claim 4, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.

9. (previously presented) The system of Claim 4, wherein the virtual computing environment comprises processes and files of the operating system.

10. (currently amended) A method of operating a computing system comprising:

starting a physical server having an operating system kernel;

initiating a plurality of virtual computing environments on the physical server, each virtual computing environment being functionally equivalent to a physical server computer; and

launching a plurality of user processes running within at least one of the virtual computing environments, the user processes being separated on a namespace level and separated based on restrictions implemented in the operating system kernel,

wherein the virtual computing environments do not require emulation of hardware

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resources and do not require dedicating memory.

11. (previously presented) The method of Claim 10, wherein each virtual computing environment has an independent root file system.

12. (canceled)

13. (previously presented) The method of Claim 10, wherein resources of the operating system kernel belonging to different users are separated on the namespace level.

14. (previously presented) The method of Claim 10, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.

15. (previously presented) The method of Claim 10, wherein the virtual computing environment comprises processes and files of the operating system.

16. (currently amended) A computer program product for operating a computing system, the computer program product comprising a computer useable medium having computer program logic recorded thereon for controlling at least one processor, the computer program logic comprising:

computer program code means for starting a physical server having an operating system kernel;

computer program code means for initiating a plurality of virtual computing environments on the physical server, each virtual computing environment being functionally equivalent to a physical server ~~computer~~; and

computer program code means for launching a plurality of user processes running within at least one of the virtual computing environments, the user processes being separated on a namespace level and separated based on restrictions implemented in the operating system kernel,

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wherein the virtual computing environments do not require emulation of hardware resources and do not require dedicating memory.

17. (previously presented) The computer program product of Claim 16, wherein each virtual computing environment has an independent root file system.

18. (canceled)

19. (previously presented) The computer program product of Claim 16, wherein resources of the operating system kernel belonging to different users are separated on the namespace level.

20. (previously presented) The computer program product of Claim 16, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.